

PHOTOGRAPHIC INTERPRETATION REPORT

ICBM COMPLEX, YEDROVO, USSR

NPIC/R-224/64

April 1964

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

Declassification Review by NIMA / DoD

NPIC/R-224/64

25X1A

Launch Site A (TDI Site 2)	57-48N 33-36E	BE No
Launch Site B (TDI Site 1)	57-48N 33-14E	BE No
Launch Site C (TDI Site 5)	57-49N 33-08E	BE No
Launch Site D (TDI Site 4)	57-48N 33-28E	BE No
Launch Site E (TDI Site 8)	57-52N 33-17E	BE No
Launch Site F (TDI Site 6)	57-43N 33-06E	BE No
Launch Site G (TDI Site 7)	57-47N 33-02E	BE No
Launch Site H (TDI Site 9)	57-49N 33-08E	BE No

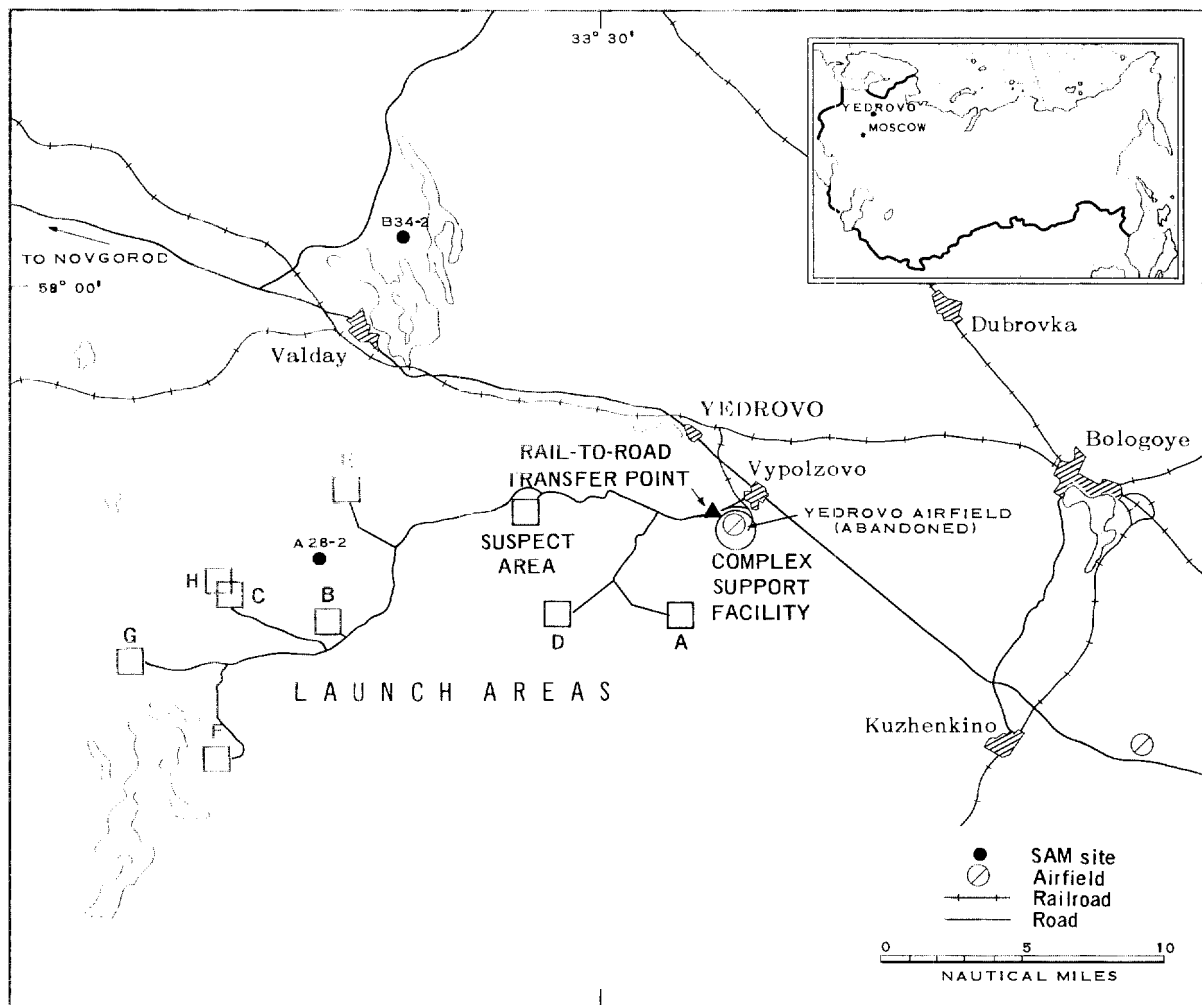


FIGURE 1. LOCATION OF COMPLEX.

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ICBM COMPLEX, YEDROVO, USSR

INTRODUCTION

The Yedrovo ICBM Complex is situated south and west of Yedrovo, which is 95 nautical miles (nm) northwest of Kalinin. The terrain is forested, interspersed with numerous lakes, and generally level, with an average elevation of about 600 feet above sea level. The complex consists of a complex support facility, a rail-to-road transfer point, and 8 launch areas, 5 completed and 3 under construction (Figure 1). The completed launch areas include 2 Type IIB sites (A and B), 2 Type IID sites (D and F), and one Type IIIA site (E); those under construction include 2 Type IID sites (C and G) and one Type IIIA site (H). All six of the Type II sites are oriented on an azimuth of 290 degrees plus or minus 5 degrees, while the two hard sites (E and H) are oriented on an azimuth of 30 degrees plus or minus 5 degrees. Wide-radius turns are characteristic of all curves and junctions in the road network throughout the complex. Rail service is provided to the complex support facility

and the rail-to-road transfer point by a branch from the Bologoye-Novgorod rail line. Scattered power traces are evident throughout the complex.

The complex support facility, rail-to-road transfer point, and four launch areas were first identified in [REDACTED] and are not present on TALENT photography of [REDACTED]. Subsequent missions revealed a fifth launch area in [REDACTED] and the three other launch areas [REDACTED]

25X1D
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25X9

Yedrovo ICBM Complex SAM Site A28-2,
BE No [REDACTED]
Yedrovo ICBM Complex SAM Site B34-2,
BE No [REDACTED]

25X1A
25X1A

COMPLEX SUPPORT FACILITY

The complex support facility (57-51N 33-41E) is situated at the eastern end of the launch complex at the site of the abandoned Yedrovo Airfield, 4.5 nm south-southeast of Yedrovo. It is rail and road served, respectively, from the Bologoye-Novgorod rail line and from a highway running southeast from Valday through Yedrovo. Consisting of a railhead and storage area, a large administration/housing area, and a housing area (Figures 2 and 3), the facility was first observed on photography of [REDACTED]

[REDACTED] and since then there have been no significant changes.

25X1D

The railhead and storage area apparently utilizes many of the facilities present at the airfield during World War II, the most significant addition being three long and one short rail spurs ranging in length from 1,800 to 4,000 feet; the longer spurs are approximately 600 feet apart. The area is at least partially fenced and there are two small fenced sections within it. Cloud cover on TALENT photography of [REDACTED]

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25X1D

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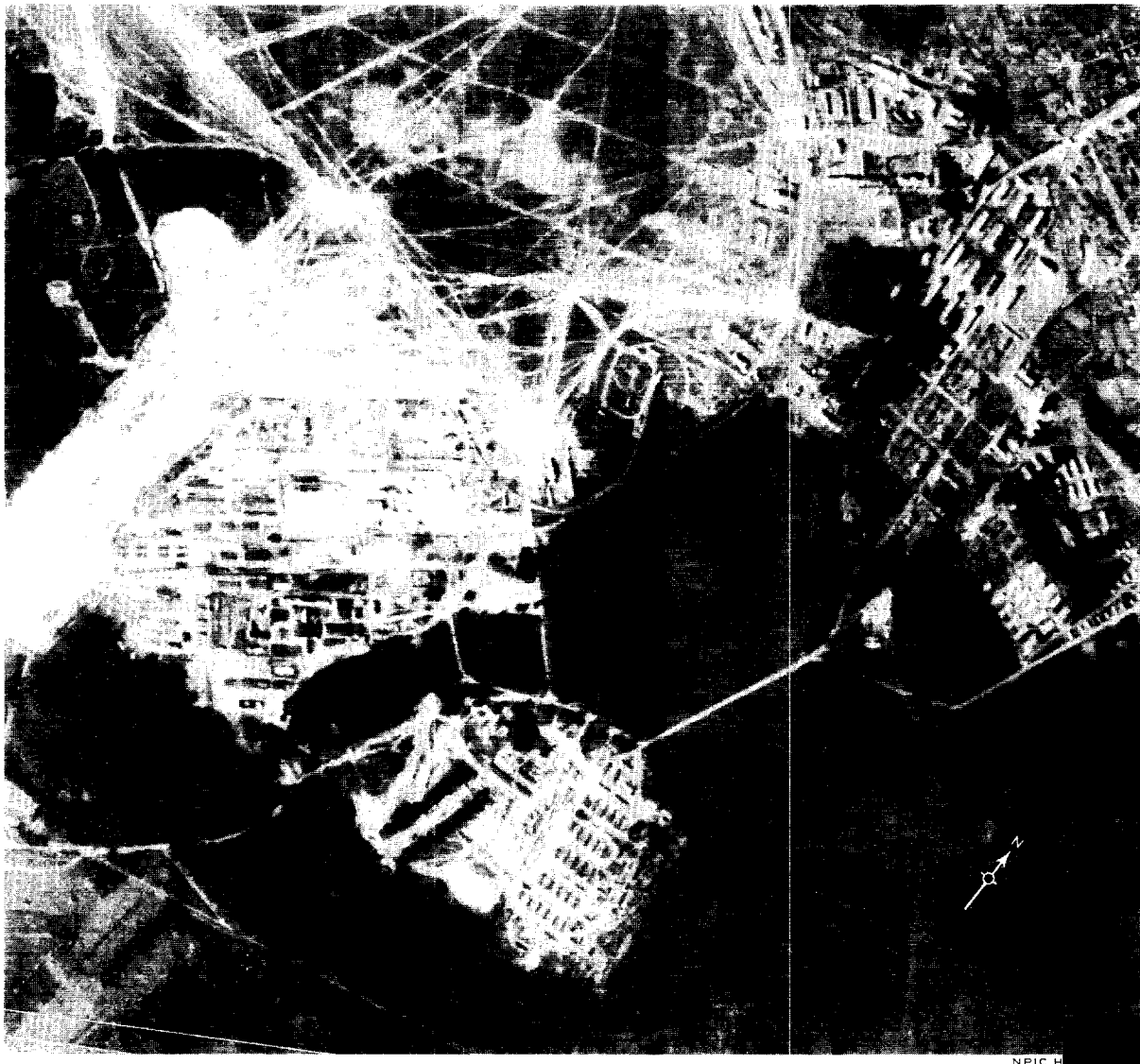


FIGURE 2. COMPLEX SUPPORT FACILITY.

25X1D [REDACTED] precludes determination of the
status of the area at that time, but some of the
25X1D buildings are present on [REDACTED]
25X1D [REDACTED] Just to the north and east of the rail-
head is a small rail-served area of unidentified
function, apparently not fenced, that includes
four buildings and a circular road pattern.

The administration/housing area, approxi-
mately 0.8 nm northeast of the railhead and

storage area, contains about 200 buildings,
many of which were in a state of disrepair in
[REDACTED] but have since been reconstructed. How-
ever, cloud cover on the [REDACTED] photography pre-
cludes determination of the exact number of
buildings present at that time. The housing
area southeast of the railhead and storage area
contains more than 50 buildings and a vehicle/
equipment pool.

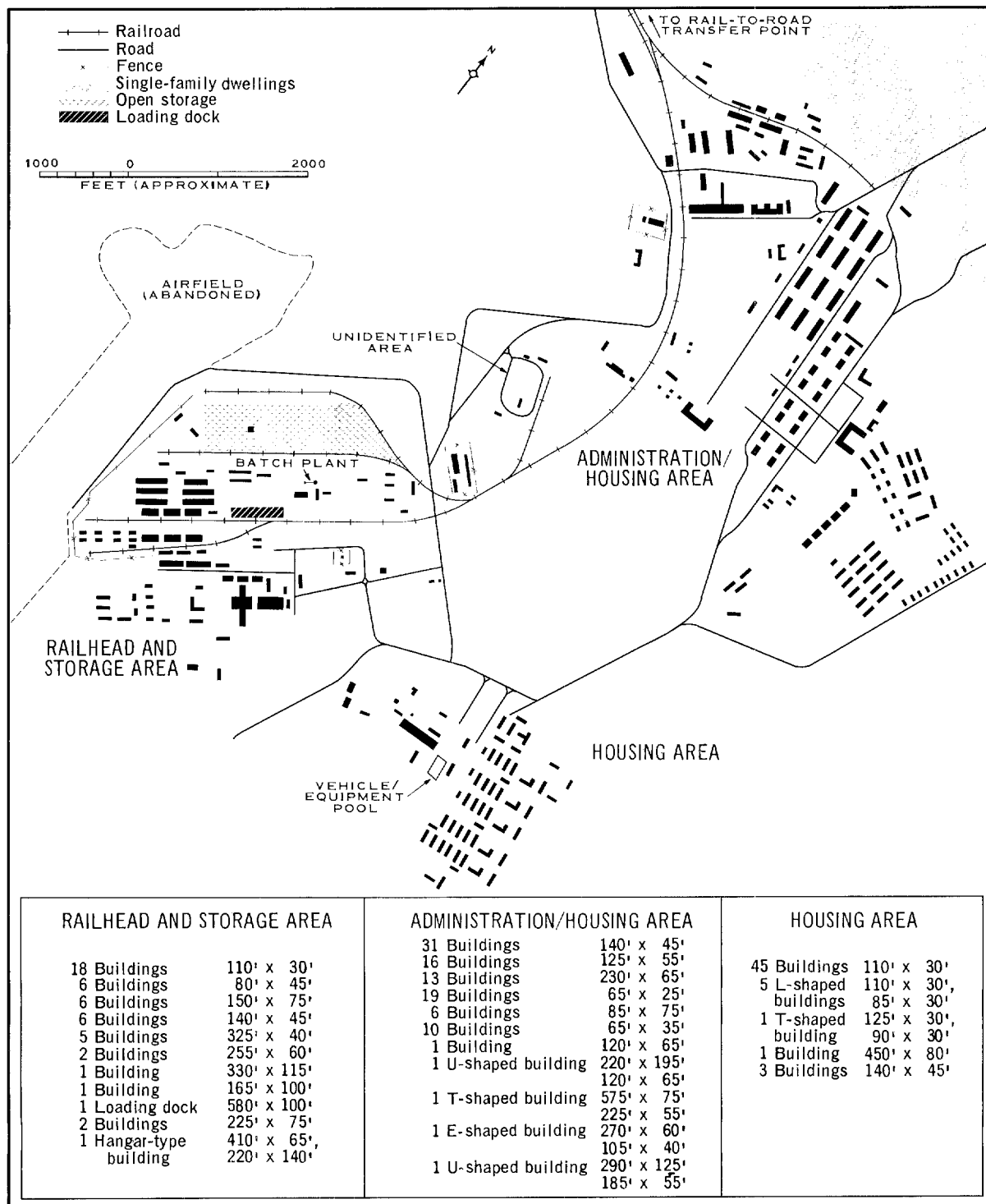


FIGURE 3. LAYOUT OF COMPLEX SUPPORT FACILITY.

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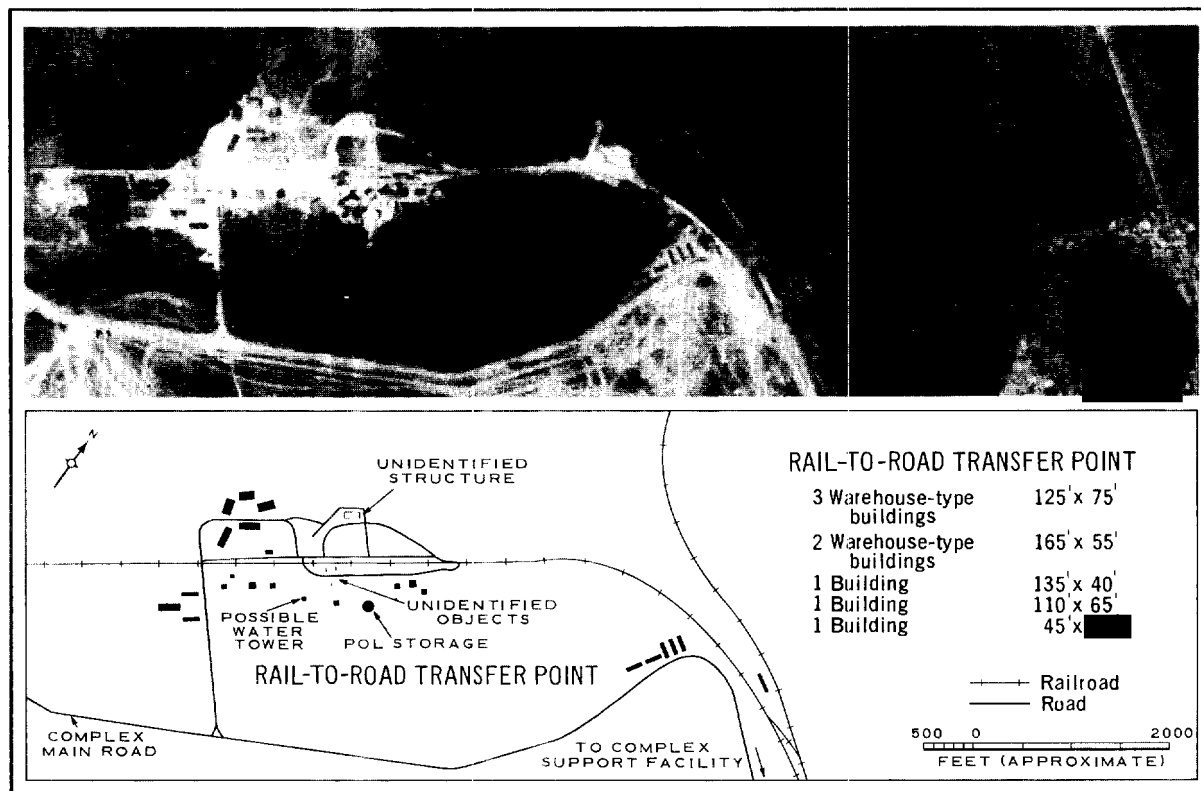


FIGURE 4. RAIL-TO-ROAD TRANSFER POINT.

RAIL-TO-ROAD TRANSFER POINT

The rail-to-road transfer point (57-52N 33-39E) is a completed loop type situated at the edge of a wooded area 1.5 nm northwest of the complex support facility (Figure 4). It was first seen in [REDACTED] at which time several buildings were under construction. As of [REDACTED] there

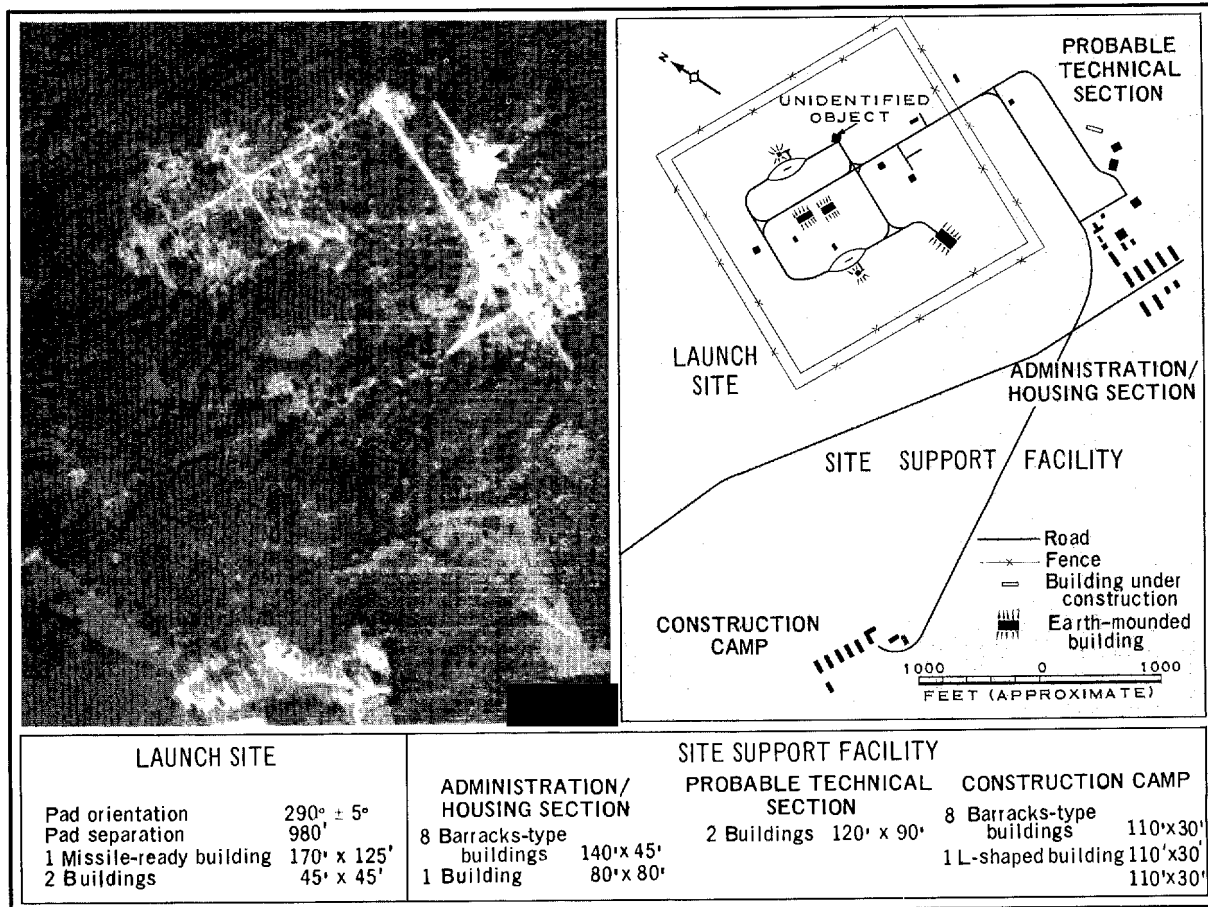
were 5 warehouse-type buildings, 12 others of various sizes, and a POL tank, but no visible security measures. A well-engineered road having characteristic wide-radius turns connects the transfer point with the complex main road.

LAUNCH AREA A

Launch Area A, consisting of a completed Type IIB launch site and a site support facility,

is situated in a wooded area 4.0 nm southwest of the complex support facility (Figure 5). First

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FIGURE 5. LAUNCH AREA A.

seen in [REDACTED] it can be negated on TALENT photography of [REDACTED] and was considered to have been complete in [REDACTED]

The launch site is in a clearing and is enclosed by a double security fence. An erector/shelter is in the center of each launch pad. A single earth-mounded missile-ready building is 600 feet to the rear of the left pad and is canted approximately 50 degrees outward. An unidentified object approximately 300 feet to the rear of the right pad measures 80 by 80 feet. Two earth-mounded buildings are to the left of

the center service road which is offset to the right. [REDACTED]

The site support facility, 2,200 feet south of the launch site, consists of an administration/housing section that includes eight barracks-type buildings, and a probable technical section that includes two large buildings in a clearing. A construction camp about 3,000 feet southwest of the launch site is apparently being dismantled.

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LAUNCH AREA B

Launch Area B, consisting of a completed Type IIB launch site and a site support facility, is situated in a wooded area 14.7 nm west-southwest of the complex support facility (Figure 6). First seen in [REDACTED] it can be negated on 'TALENT' photography of [REDACTED] and was considered to have been complete in [REDACTED]

The launch site is in a partially cleared area and is enclosed by a double security fence. An erector/shelter is in the center of each launch pad. A single missile-ready building is 400 feet to the rear of the left pad and is canted approximately 60 degrees outward. Two other

buildings, one earth mounded, are to the left of the center service road, which is offset to the right. [REDACTED]

The site support facility is approximately 2,500 feet southeast of the launch site and consists of an administration/housing section that includes 30 barracks-type buildings, and a possible technical section. A large cleared area, immediately to the east of the administration/housing section, has been present since the complex was first identified.

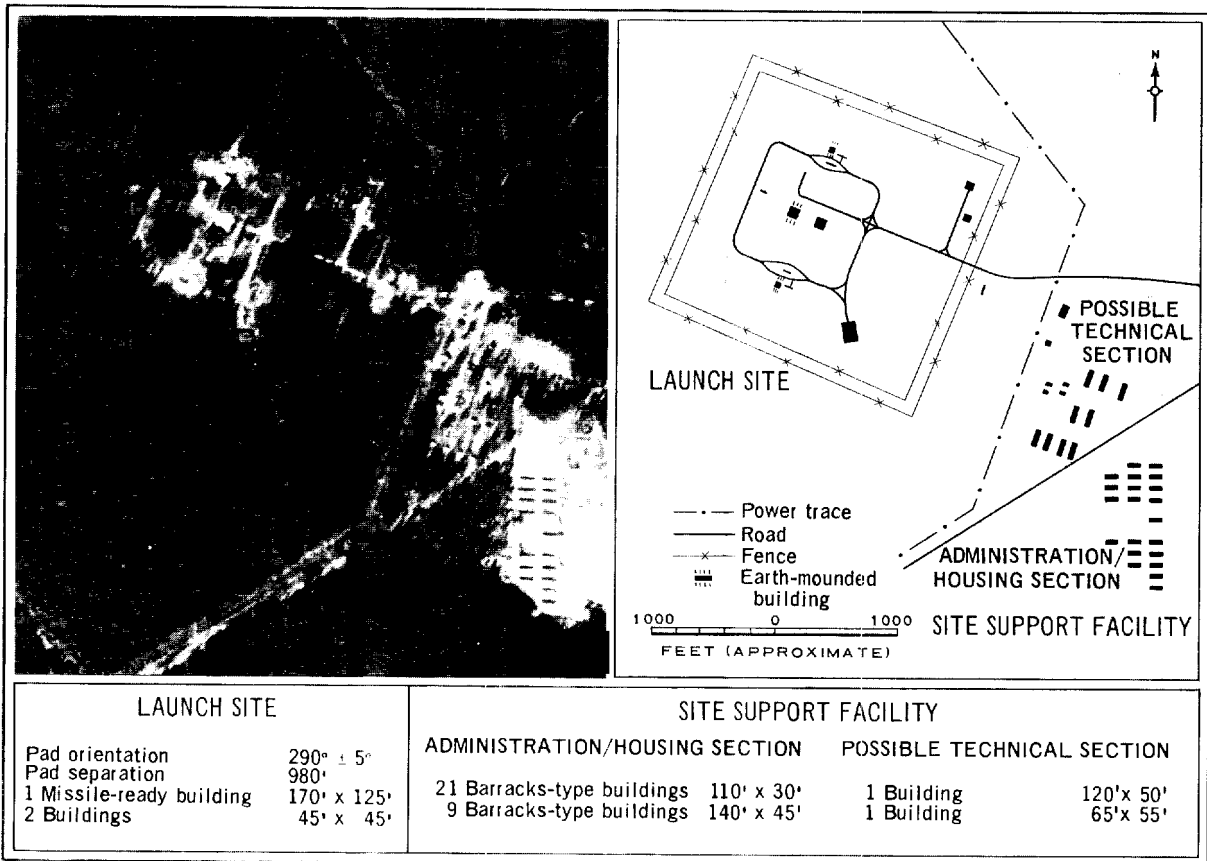


FIGURE 6. LAUNCH AREA B.

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LAUNCH AREA C

Launch Area C, consisting of a Type IID launch site in the midstage of construction and a site support facility (Figure 7), is situated in a wooded area 17.7 nm west-southwest of the

complex support facility. First seen in [REDACTED] it can be negated on photography of [REDACTED]
The launch site is in a clearing but no secu-

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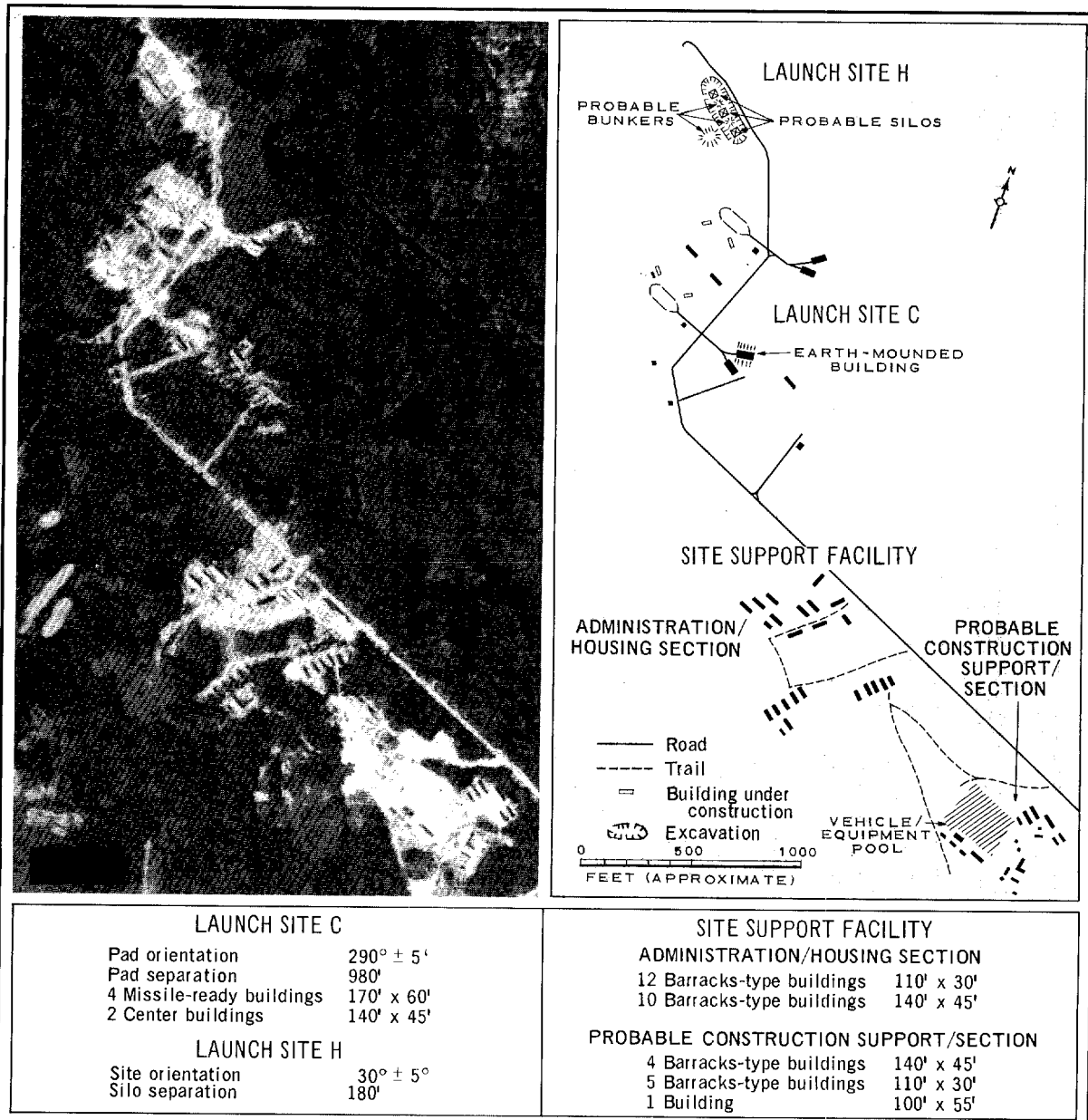


FIGURE 7. LAUNCH AREAS C AND H.

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rity fencing is evident. Two missile-ready buildings are situated 600 feet to the rear of each pad, all four canted from the pad azimuth: behind the right pad, the northern building is approximately 60 degrees outward and the southern building is approximately 15 degrees outward; behind the left pad, the earth-mounded building is approximately 25 degrees inward and the other building is approximately 10 degrees outward. Two buildings in line at the center of the site are apparently complete but two canted buildings

inboard of each launch pad are still under construction.

The site support facility, 3,000 feet to the southeast, is also probably utilized by Launch Area H, which is situated less than 1,500 feet north-northwest of the launch site. The facility consists of an administration/housing section that includes 22 barracks-type buildings, and a probable construction support section that includes 9 barracks-type buildings and a vehicle/equipment pool.

LAUNCH AREA D

Launch Area D, consisting of a completed Type IID launch site and a site support facility, is situated in a wooded area 7.6 nm southwest of

the complex support facility (Figure 8). First observed in [REDACTED], the area can be negated on photography of [REDACTED]

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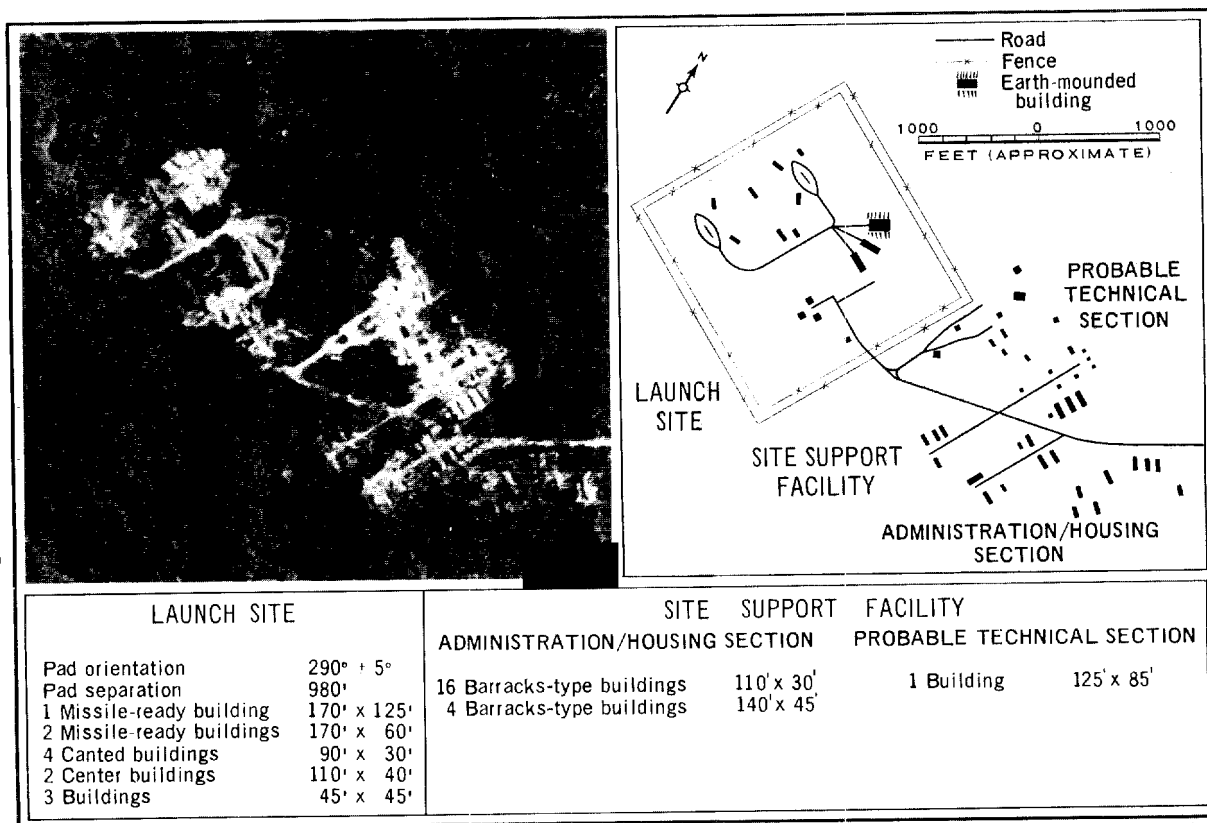


FIGURE 8. LAUNCH AREA D

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25X1D [redacted] and was considered to have been
25X1D complete in [redacted]

The launch site is in a clearing and is enclosed by a double security fence. A small structure apparent in the center of each pad is probably an erector/shelter. Three missile-ready buildings are to the rear of the right launch pad: the northernmost building is earth mounded and canted approximately 60 degrees outward, the center building is canted approximately 25 degrees outward, and the southernmost building is in line with the pad azimuth. Two canted buildings are inboard of each launch pad.

Two more buildings are in line at the center of the site, with a third and smaller building offset to the right rear. [redacted]

25X9

25X9

The site support facility, situated just outside the security fence to the rear of the launch site, consists of an administration/housing section that includes 20 barracks-type buildings, and a probable technical section consisting of one large and two small buildings.

LAUNCH AREA E

Launch Area E, consisting of a completed Type IIIA launch site and a site support facility,

is located in a wooded area 14.8 nm west-northwest of the complex support facility (Fig-

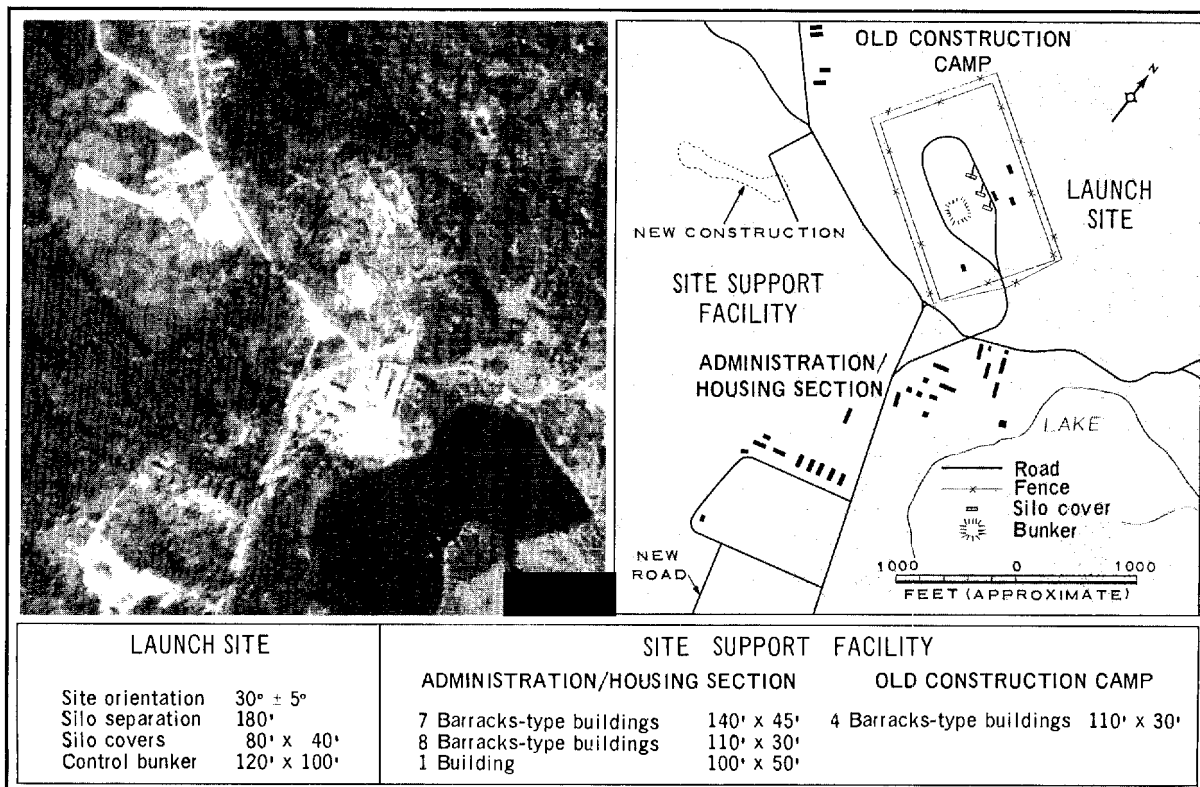


FIGURE 9. LAUNCH AREA E.

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TOP SECRET CHESS RUFF

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25X1D

ure 9). First seen in [REDACTED] it can be negated on TALENT photography of [REDACTED] and was considered to have been complete in [REDACTED] (Mis-

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25X1D

The launch site is in a clearing and is enclosed by a double security fence. The launch silos and control bunker have all been backfilled, and the loop road pattern and three rectangular silo covers are visible.

The administration/housing section of the

site support facility is situated about 2,000 feet south of the launch site and includes at least 15 barracks-type buildings. Approximately 3,000 feet to the northwest of this section are four other barracks-type buildings which are part of an old construction camp. In addition, there is an area of new construction about 1,500 feet west of the launch site; also, a new road is being extended from the south end of the administration/housing section.

LAUNCH AREA F

Launch Area F consists of a completed Type IID launch site and a site support facility situated in a wooded area 20.4 nm southwest of

the complex support facility (Figure 10). First observed in [REDACTED] it can be negated on photography of [REDACTED] Mission

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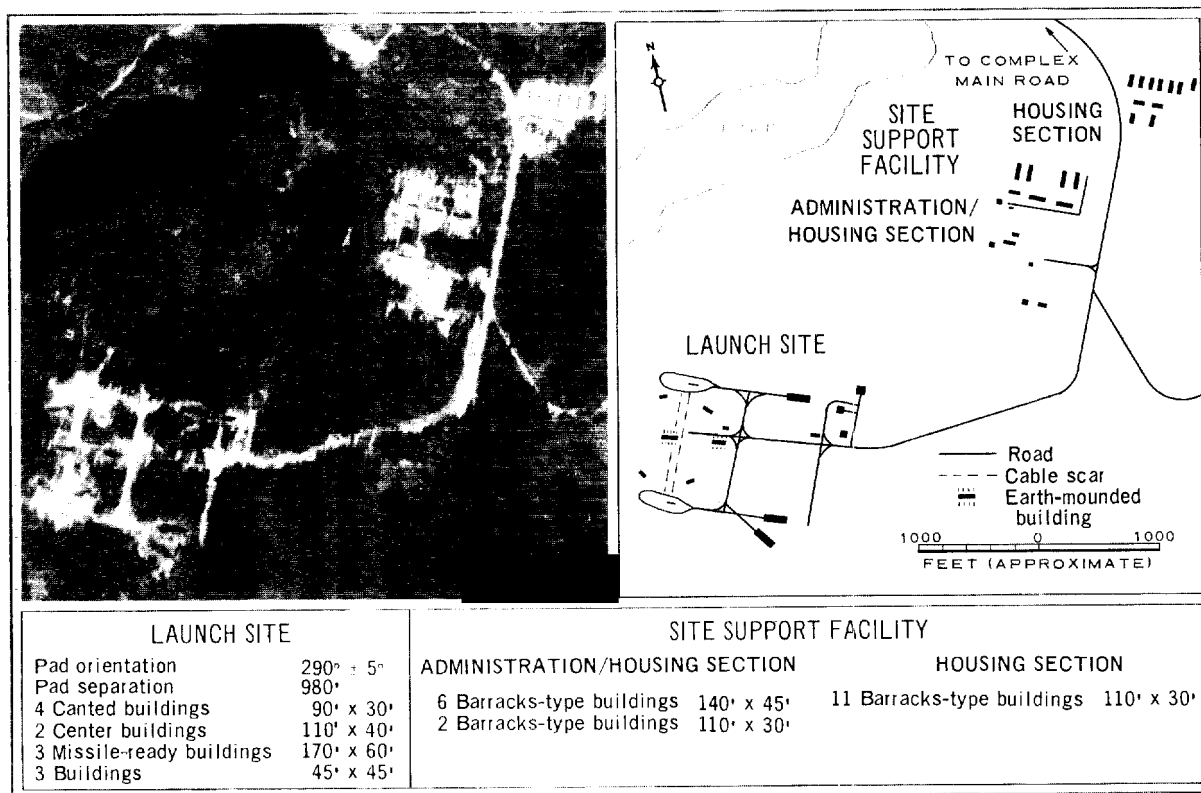


FIGURE 10. LAUNCH AREA F.

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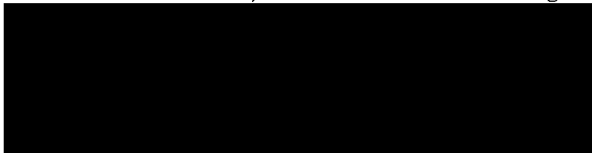
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25X1D [redacted] and was considered to have been complete
25X1D in [redacted]

The launch site is in a cleared area and no security fencing is evident. An erector/shelter is apparently present on each launch pad. A single missile-ready building is in line to the rear of the right launch pad and two others are to the rear of the left launch pad, the northernmost in line with the pad azimuth and the other canted approximately 25 degrees outward. Two earth-mounded buildings are to the left of the

center service road, which is offset to the right.



25X9

The site support facility, approximately 3,000 feet northeast of the launch site, contains at least 19 barracks-type buildings divided between an administration/housing section and a housing section.

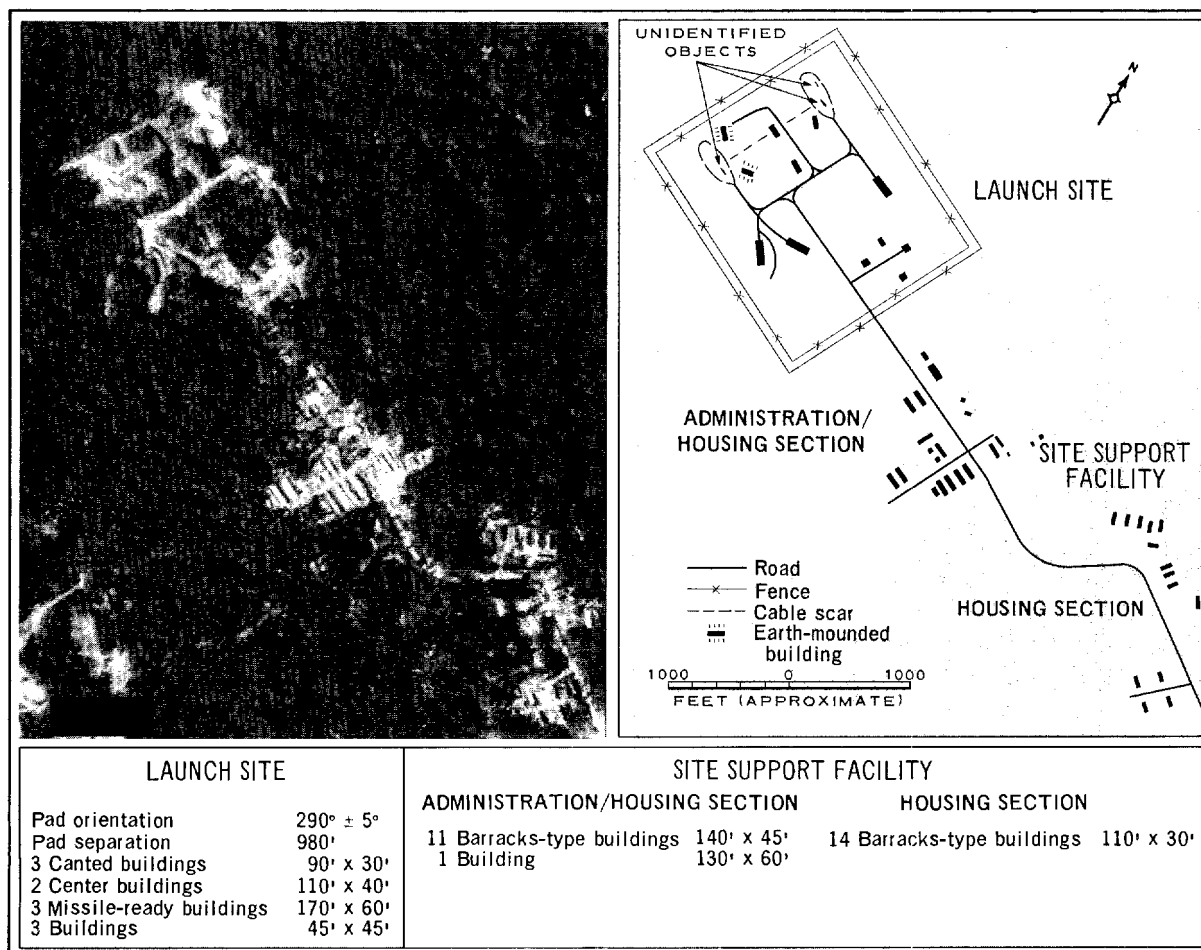


FIGURE 11. LAUNCH AREA G.

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LAUNCH AREA G

25X1D Launch Area G, consisting of a Type IID
25X1D launch site in the midstage of construction and a
site support facility, is situated in a wooded
area 21.2 nm west-southwest of the complex sup-
port facility (Figure 11). It was first observed in
[REDACTED] and can be negated on
photography of [REDACTED]

The launch site is in a cleared area and is
enclosed by a double security fence. Three un-
identified objects are visible in the pad area.
Three missile-ready buildings are present, one
in line to the rear of the right launch pad and two
others to the rear of the left launch pad, the in-
board building canted approximately 20 degrees

inward and the outboard building canted approxi-
mately 20 degrees outward. Three canted build-
ings are present inboard of the launch pads, the
two to the left appearing earth mounded. The
two center buildings appear to have been com-
pleted. Roads and pads do not appear to be paved.
[REDACTED]

The administration/housing section of the
site support facility is 2,000 feet southeast of the
launch site and includes 11 barracks-type build-
ings; farther southeast is a housing section con-
sisting of 14 barracks-type buildings.

LAUNCH AREA H

25X1D Launch Area H consists of a Type IIIA launch
25X1D site in the midstage of construction and a site
25X1D support facility that is probably utilized by
Launch Area C as well (Figure 7). The launch
site is situated approximately 1,500 feet north-
northwest of the launch site of Launch Area C
and 17.9 nm west-southwest of the complex sup-
port facility. The first evidence of the launch
site was an excavation that was identified in
[REDACTED]. The site at that time
was considered to be a suspect launch area, and
in [REDACTED] was reported as a
complete Type III site. However, on photography
of [REDACTED] the Type IID site of
Launch Area C was identified, and the Type III
site at H was negated and redesignated as an
unidentified area of scarring. Continued study

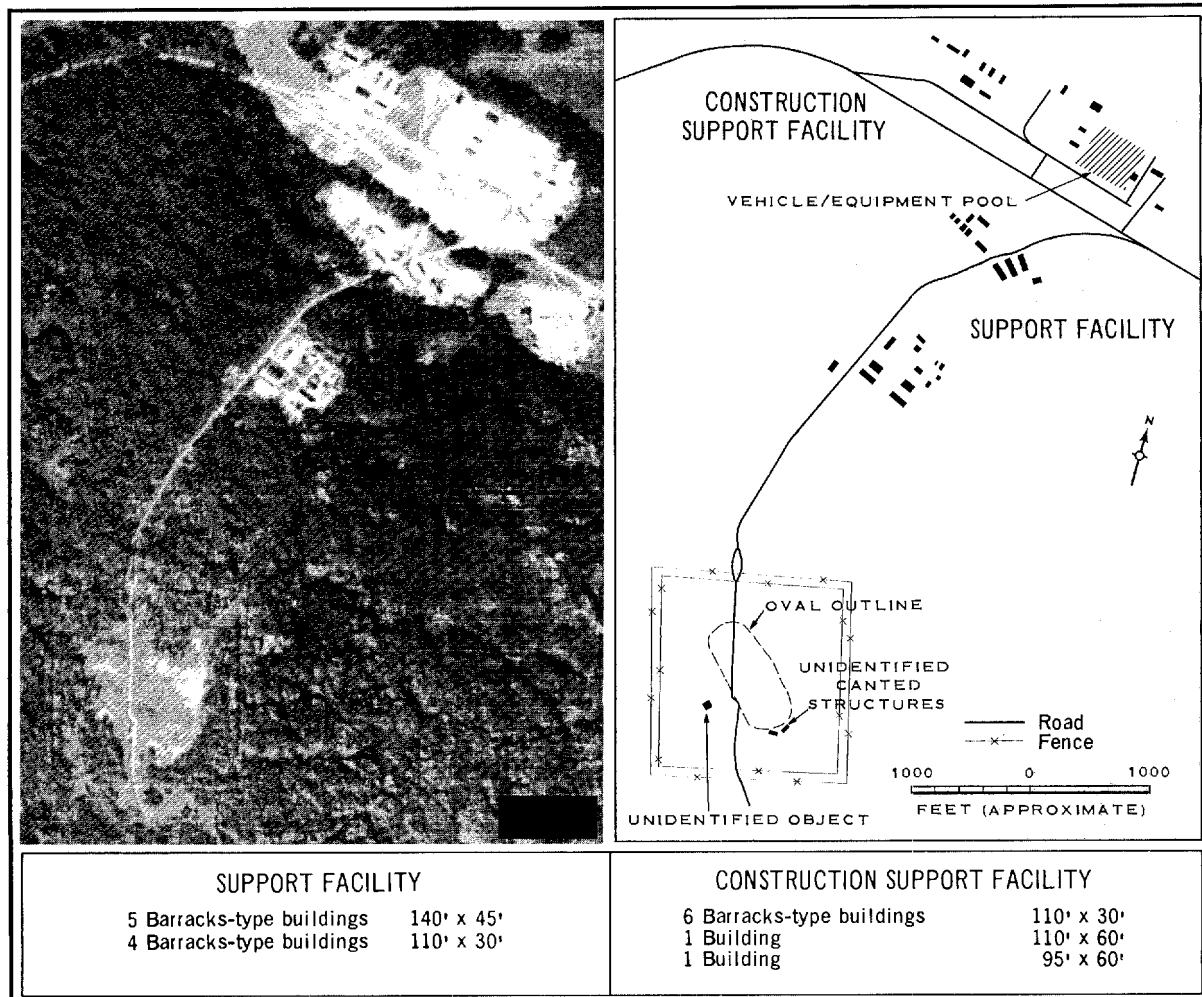
of these and later coverages revealed that the
initial identification of Launch Area H was cor-
rect, and that Launch Areas C and H are, in fact,
collocated.

As of [REDACTED] the
control bunker cannot be seen and evidently has
been covered over, but a partially backfilled
excavation containing five objects is visible.
Two of these objects are indistinct and are prob-
ably the equipment bunkers; the other three
objects appear to be square and are probably
the silos though they do not have the canted po-
sition relative to each other that has been ob-
served at other Type IIIA launch sites. However,
dimensions at the site are consistent with those
at other Type IIIA launch sites.

SUSPECT AREA

A suspect area enclosed by a double security
fence is situated in a wooded area 7.5 nm west-

northwest of the complex support facility at
57-52N 32-27E. When first observed in [REDACTED]



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FIGURE 12. SUSPECT AREA.

25X1D [REDACTED] the fencing was present but barely visible and at least three unidentified structures were apparent in the center of a small clearing; no excavation was evident. Following this, in [REDACTED] only one unidentified object was present; in [REDACTED] there were three unidentified images in line down the center of the clearing; in [REDACTED] at least seven objects were apparent but formed no distinct pattern and there was still no indication of an excavation.

As of [REDACTED] all evidence of any of these prior unidentified structures/objects/images is gone (Figure 12). All that is visible is a road that enters the doubly secured area from the north, passes diagonally across the long axis of a faint oval outline in the center of the clearing, and leaves through the opposite side to end abruptly in the woods. Within the clearing, two small, canted, unidentified structures are positioned at the southern end of the faint oval outline and a small unidentified object is partially obscured by trees at the edge

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of the clearing to the west of the road. None of the present structures/objects has been apparent previously and there is no sign of an excavation.

A small support facility, situated approximately 2,800 feet to the north along the access road, is probably associated with this area. It contains approximately 24 buildings, including 9 of the barracks type, and is divided into two groups.

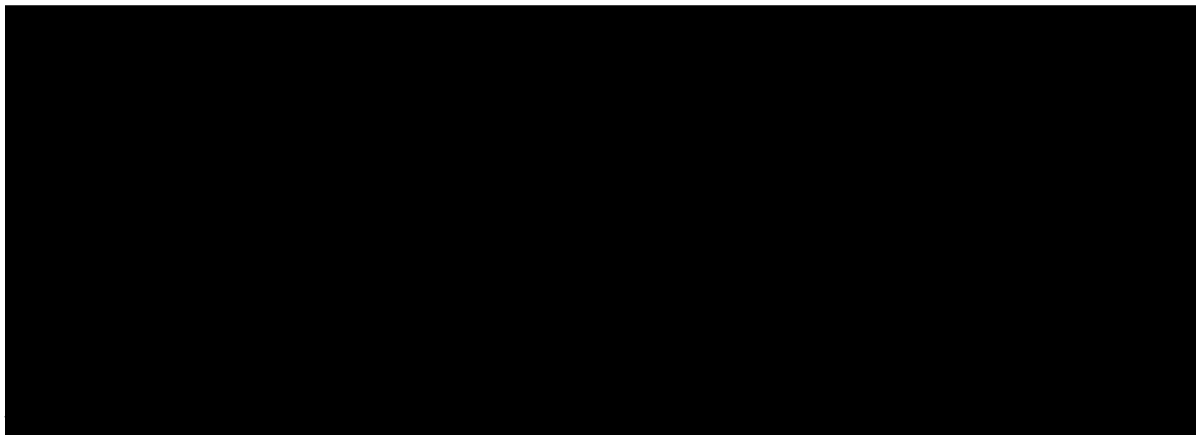
Farther to the north is a construction support facility that consists of a group of buildings and a vehicle/equipment pool. This facility appears similar to one situated near Launch Areas C and H, both of which are apparently used for construction support purposes. This facility was present when the complex was first observed in [REDACTED] and since then the only change has been the removal of some of the buildings.

25X1D

REFERENCES

PHOTOGRAPHY

25X1D



MAPS OR CHARTS

USATC. Series 200, Sheet 154-11A, 1st ed, Nov 58, scale 1:200,000 (SECRET)

REQUIREMENT

NPIC. PC 806-63 (partial answer)

NPIC PROJECT

J-368/63 (partial answer)

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CIA



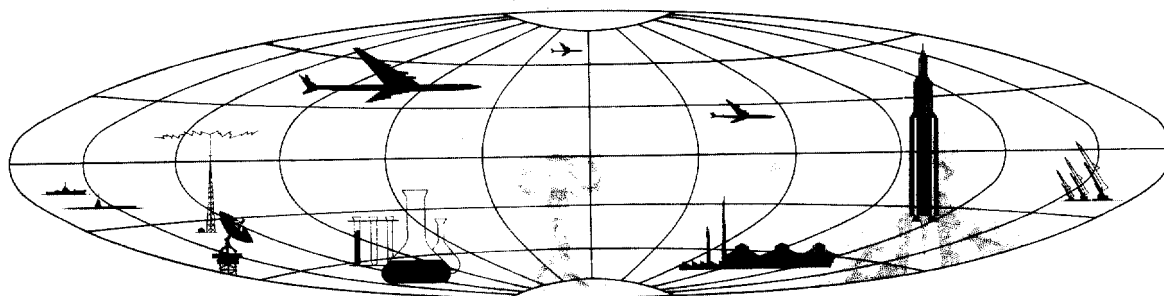
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